

From the INTERNATIONAL BUREAU

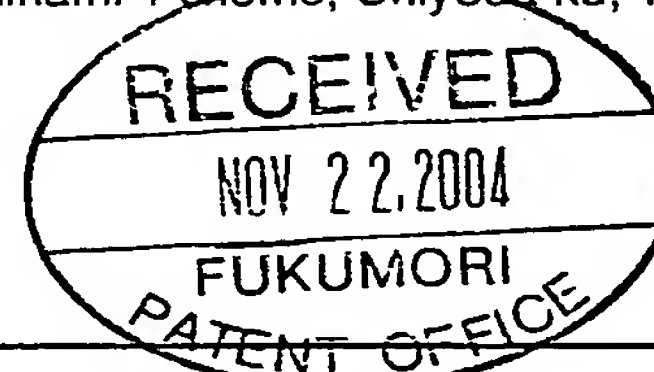
PCT

FIRST NOTICE INFORMING THE APPLICANT OF
THE COMMUNICATION OF THE INTERNATIONAL
APPLICATION (TO DESIGNATED OFFICES WHICH
DO NOT APPLY THE 30 MONTH TIME LIMIT
UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

To:

FUKUMORI, Hisao
2F, Fuji Building
5-11, Kudanminami 4-chome, Chiyoda-ku, Tokyo
1020074
JAPON



Date of mailing (day/month/year)
11 November 2004 (11.11.2004)

Applicant's or agent's file reference
IDEAL0006

IMPORTANT NOTICE

International application No.
PCT/JP2004/005012

International filing date (day/month/year)
07 April 2004 (07.04.2004)

Priority date (day/month/year)
07 April 2003 (07.04.2003)

Applicant

IDEAL STAR INC. et al

1. **ATTENTION:** For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), **does apply**, please see Form PCT/IB/308(Second and Supplementary Notice) (to be issued promptly after the expiration of 28 months from the priority date).

2. Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, **does not apply**, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:
21 October 2004 (21.10.2004)

CH

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

3. The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, **does not apply**, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1 :

FI, LU, SE, TZ, UG, ZM

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. TIME LIMITS for entry into the national phase

For the designated Office(s) listed above, and unless a demand for international preliminary examination has been filed before the expiration of 19 months from the priority date (see Article 39(1)), the applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be 20 MONTHS from the priority date.

In practice, time limits other than the 20-month time limit will continue to apply, for various periods of time, in respect of certain of the designated Offices listed above. For regular updates on the applicable time limits (20 or 21 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 90 90

From the INTERNATIONAL BUREAU

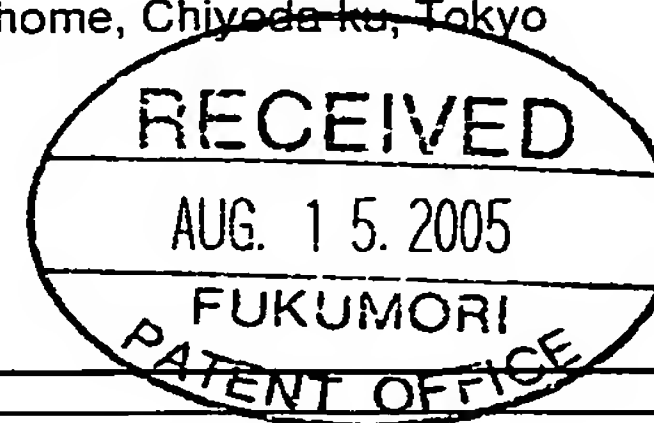
PCT

SECOND AND SUPPLEMENTARY NOTICE
INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION (TO DESIGNATED OFFICES
WHICH APPLY THE 30 MONTH TIME
LIMIT UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

To:

FUKUMORI, Hisao
2F, Fuji Building
5-11, Kudanminami 4-chome, Chiyoda-ku, Tokyo
1020074
JAPON



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|--|---|---|
| Date of mailing (<i>day/month/year</i>) 11 August 2005 (11.08.2005) | | |
| Applicant's or agent's file reference IDEAL0006 | | |
| IMPORTANT NOTICE | | |
| International application No. PCT/JP2004/005012 | International filing date (<i>day/month/year</i>) 07 April 2004 (07.04.2004) | Priority date (<i>day/month/year</i>) 07 April 2003 (07.04.2003) |
| Applicant IDEAL STAR INC. et al | | |

- ATTENTION:** For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), **does not apply**, please see Form PCT/IB/308(First Notice) issued previously.
- Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, **does apply**, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:
21 October 2004 (21.10.2004)

AU, AZ, BY, CN, CO, DZ, EP, HU, KG, KP, KR, MD, MK, MZ, NA, RU, SY, TM, US

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

- The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, **does apply**, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1 :

AE, AG, AL, AM, AP, AT, BA, BB, BG, BR, BW, BZ, CA, CR, CU, CZ, DE, DK, DM, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KZ, LC, LK, LR, LS, LT, LV, MA, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, SC, SD, SG, SK, SL, TJ, TN, TR, TT, UA, UZ, VC, VN, YU, ZA, ZW

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. TIME LIMITS for entry into the national phase

For the designated or elected Office(s) listed above, the applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be **30 MONTHS** from the priority date.

In practice, **time limits other than the 30-month time limit** will continue to apply, for various periods of time, in respect of certain of the designated or elected Office(s) listed above. For **regular updates on the applicable time limits** (30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

It is the applicant's sole responsibility to monitor all these time limits.

| | |
|---|--|
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland | Authorized officer Yoshiko Kuwahara |
| Facsimile No.+41 22 740 14 35 | Facsimile No.+41 22 338 90 90 |

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/005012

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ C01B31/02, B82B3/00, H05H1/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C01B31/02, B82B3/00, H05H1/46

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JOIS, SCIENCE DIRECT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------------|--|--|
| X Y A | T. HIRATA et al., "The K ⁺ -C ₆₀ plasma for material processing", PLASMA SOURCES SCI. TECHNOL., 1996, Vol.5, pages 288 to 292 | 47 1, 2, 10, 13, 17-20, 24-30, 36-40, 43, 46, 51, 52 3-9, 11, 12, 14-16, 21-23, 31-35, 41, 42, 44, 45, 48-50 |
| X Y | R. HATAKEYAMA et al., "Formation of alkali- and Si-endohedralfullerenes based on plasma technology, ELECTROCHEMICAL SOCIETY PROCEEDINGS, 2001, Vol.2001-11, pages 341 to 348 | 47 1, 2, 10, 13, 17-20, 24-30, 36-40, 43, 46, 51, 52 |

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
09 July, 2004 (09.07.04)

Date of mailing of the international search report
27 July, 2004 (27.07.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/005012

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|--|
| X Y | HATAKEYAMA R. et al., "Arc Hoden ni yoru Tanso Cluster no Gosei to Oyo, 6. Fullerene Plasma no Seishitsu to Oyo", Journal of Plasma and Fusion Research, 1999, Vol.75, No.8, pages 927 to 933 | 47 1, 2, 10, 13, 17-20, 24-30, 36-40, 43, 46, 51, 52 |
| X Y | HATAKEYAMA R., "Teijoteki Hoden Plasma no Gensho o Oyo", The Journal of the Japan Research Group of Electrical Discharges, 2002, Vol.45, No.4, pages 73 to 82 | 47 1, 2, 10, 13, 17-20, 24-30, 36-40, 43, 46, 51, 52 |
| Y | JP 09-082495 A (Toshiba Corp.), 28 March, 1997 (28.03.97), Claims & US 5897713 A | 17-19, 36-38 |
| Y | JP 11-345772 A (Sony Corp.), 14 December, 1999 (14.12.99), Claims (Family: none) | 27 |
| Y | JP 2002-335004 A (Osaka Gas Co., Ltd.), 22 November, 2002 (22.11.02), Full text (Family: none) | 51, 52 |
| A | HOUJIN HUANG et al., " ¹⁴ N@C ₆₀ formation in a nitrogen rf-plasma, 2002, CHEM.COMMUN., No.18, pages 2076 to 2077 | 48-50 |
| A | B.PIETZAK et al., "Properties of endohedral N@C ₆₀ CARBON, 1998, Vol.36, Nos.5 to 6, pages 613 to 615 | 48-50 |
| A | S. WATANABE et al., "Synthesis of endohedral ¹³³ Xe-fullerene by ion implantation", Japan Atomic Energy Research Institute, JAERI-Review, 2001, No. JAERI-Review 2001-039, pages 228 to 229 | 48-50 |
| P, A | Koichi KOMATSU et al., "Naiho Fullerene no Yuki Gosei ni Idomu", Chemistry, 01 February, 2004 (01.02.04), Vol.59, No.2, pages 23 to 28 | 48-50 |